#### B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit

1. General site information. Please provide the following information about the site: a) Name of facility/site: Facility/site address: J.B. Vaillancourt, Inc. - Bulk Plant Facility Hillsborough, NH Location of facility/site: Facility SIC code(s): Street: longitude: latitude: NA 99 Henniker Street 71° 53' 15.4"W 43° 07' 7.5"N b) Name of facility/site owner: Lewis Pletcher Town: Hillsborough Email address of owner: State: Zip: County: 03244 NH Hillsborough Telephone no. of facility/site owner: (603) 464-5447 Fax no. of facility/site owner: Owner is (check one): 1. Federal 2. State/Tribal 3. Private \( \square \) 4. other, if so, describe: Address of owner (if different from site): Street: 14835 Noble Park Drive Town: Odessa State: FL Zip: 33556 County: Operator telephone no: (603) 749-4967 c) Legal name of operator: Cyn Environmental Services Operator fax no.: (603) 749-1688 Operator email: shelley\_tamis@cynenv.com Operator contact name and title: Shelley Tamis

Address of oper	rator (if different f	rom owner):	Street: 8 Progress Drive							
Town: Dover			State: NH	Zip: 03820	County: Strafford					
d) Check "yes" or "no" for the following:  1. Has a prior NPDES permit exclusion been granted for the discharge? Yes No ✓, if "yes," number:  2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes No ✓, if "yes," date and tracking #:  3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Yes ✓ No  4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes No										
e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes \( \subseteq \) No  If "yes," please list:  1. site identification # assigned by the state of NH or MA: 1989019033 (NH)  2. permit or license # assigned: GWP-1998909033-H-001  3. state agency contact information: name, location, and telephone number:  NHDES, Mark Ledgard, Concord, NH, 603-271-7376   f) Is the site/facility covered by any other EPA permit, including:  1. multi-sector storm water general permit? Y N \( \subseteq \), if Y, number:  2. phase I or II construction storm water general permit? Y N \( \subseteq \), if Y, number:  3. individual NPDES permit? Y N \( \subseteq \), if Y, number:  4. any other water quality related permit? Y N \( \subseteq \), if Y, number:										
2. Discharge i	nformation. Pleas	se provide information about the dis	scharge, (attachii	ng additional sheets as needed)	including:					
		s for which the owner/applicant is se in dewatering of a soil excavation pro								
b) Provide the following information about each discharge:	Number of discharge points:	2) What is the maximum and average flow rate of discharge (in cubic feet per second, ft³/s)? Max. flow 0.16  Average flow 0.05								
3) Latitude and lopt.4:long.  LAT 7	3) Latitude and longitude of each discharge within 100 feet: pt.1:long lat; pt.2: long lat; pt.3: long lat; pt.4:long lat; pt.5: long lat; pt.6:long lat; pt.7: long lat; pt.8:long lat; etc LAT 71 53' 15.4"W LONG 43 07' 7.5"M									

4) If hydrostatic testing, total volume of the discharge (gals): N/A	5) Is the discharge intermittent $\checkmark$ or seasonal ?  Is discharge ongoing Yes $\checkmark$ No ?								
c) Expected dates of discharge (mm/dd/yy): start_07/20/06	end 09/20/06								
d) Please attach a line drawing or flow schematic showing water flow through the facility including:  1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).									

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for all of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only	VOC Only	Primarily Metals	Urban Fill Sites	Contaminated Sumps	Mixed Contaminants	Aquifer Testing
Fuel Oils (and Other Oils) only	VOC with Other Contaminants	Petroleum with Other Contaminants	Listed Contaminated Sites	Contaminated Dredge Condensates	Hydrostatic Testing of Pipelines/Tanks	Well Development or Rehabilitation

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is believed present or believed absent in the potential

discharge. Attach additional sheets as needed.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Analytical Minimum Sample Method Level (ML) of		Maximum daily	value	Avg. daily value		
			(1 min- imum)	(e.g., grab)	Used (method #)	Test Method	concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids		1								
2. Total Residual Chlorine	✓							ath		
3. Total Petroleum Hydrocarbons		1					YICAL			
4. Cyanide	✓					ANA				
5. Benzene		✓			- NC	LEO !!				
6. Toluene		✓		15	ATTAC			-		
7. Ethylbenzene		✓		SEE						
8. (m,p,o) Xylenes		<b>√</b>								
9. Total BTEX <sup>4</sup>		✓					<del></del>			

<sup>&</sup>lt;sup>4</sup>BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily	value	Avg. daily valu	e
			(1 min- imum)				concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✓									
11. Methyl-tert-Butyl Ether (MtBE)		✓								
12. tert-Butyl Alcohol (TBA)	1									<u> </u>
13. tert-Amyl Methyl Ether (TAME)	1		,							
14. Naphthalene		✓								
15. Carbon Tetra- chloride	1					~~(	× /			
16. 1,4 Dichlorobenzene	✓					DEL				
17. 1,2 Dichlorobenzene	✓	· <del></del> -				CAN	- "			
18. 1,3 Dichlorobenzene	<b>1</b>				PIA					
19. 1,1 Dichloroethane	<b>✓</b>				ANALY					
20. 1,2 Dichloroethane	✓			ATTACHE					<del></del>	
21. 1,1 Dichloroethylene	1			RITH					-	
22. cis-1,2 Dichloro- ethylene	1		८६							
23. Dichloromethane (Methylene Chloride)	1									-4
24. Tetrachloroethylene	1				· · · · · · · · · · · · · · · · · · ·					

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
			(1 min- imum)				concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✓							<del> </del>		1
26. 1,1,2 Trichloroethane	1									
27. Trichloroethylene	✓								. /	
28. Vinyl Chloride	1									
29. Acetone	<b>✓</b>									
30. 1,4 Dioxane	✓									
31. Total Phenols		<b>√</b>					ORTH			
32. Pentachlorophenol	1	-					V		· · · · · · · · · · · · · · · · · · ·	
33. Total Phthalates <sup>5</sup> (Phthalate esthers)					·	ALYTIC			<u> </u>	
34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	✓				HE	Allar				
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	1			. (&)	ATRICE	MALTIC				
a. Benzo(a) Anthracene	<b>√</b>			3						
b. Benzo(a) Pyrene	1				<del></del>					
c. Benzo(b)Fluoranthene	1									
d. Benzo(k) Fluoranthene	1									
e. Chrysene	<b>✓</b>		·				·			

<sup>&</sup>lt;sup>5</sup>The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples	Type of Sample (e.g.,	Analytical Method Used	Minimum Level (ML) of Test Method	Maximum daily v	value	Average daily v	alue
			(1 min- imum)	grab)	(method #)		concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	1									
g. Indeno(1,2,3-cd) Pyrene	1									
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		✓								
h. Acenaphthene	<b>1</b>									
i. Acenaphthylene	1									-
j. Anthracene	✓					· · · · · · · · · · · · · · · · · · ·	1920			
k. Benzo(ghi) Perylene	✓					<del></del>	2/ 0//			
l. Fluoranthene	<b>✓</b>					77,	***			
m. Fluorene	✓					JACH	AL DATA			
n. Naphthalene-		✓				5 Kin				
o. Phenanthrene	1				ochi					
p. Pyrene	1				RITTO					
37. Total Polychlorinated Biphenyls (PCBs)	✓			SEE						
38. Antimony	1								-	
39. Arsenic		✓								
40. Cadmium	✓									
41. Chromium III	1									-
42. Chromium VI	1									- 17.

Believe Absent	Believe Present	# of Samples (1 min- imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
						concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
	✓								
	✓								
1									
	✓								
<b>✓</b>						DA DA	TR		
✓					CIALA	nence			
	✓			-nct	ED WALL				
	✓		CEF	Alle					
			36.						
	Absent	Absent Present	Absent Present Samples (1 min-imum)	Absent Present Samples (1 minimum) Sample (e.g., grab)	Absent Present Samples (1 min-imum) Sample (e.g., grab) Method Used (method #)	Absent Present Samples (1 min-imum) Sample (e.g., grab) Method Used (method #)  V  V  V  V  V  V  V  V  V  V  V  V  V	Absent Present Samples (1 min-imum) Sample (e.g., grab) Sample (e.g., grab) Level (ML) of Test Method (method #)	Absent Present Samples (1 min-imum) Sample (e.g., grab) Sample (e.g., grab) Level (ML) of Test Method Concentration (ug/l) mass (kg)	Absent Present Samples (1 min-imum) Sample (e.g., grab) Sample (e.g., grab) Sample (e.g., dethod with the sample (e.g., grab) Sample (e.g., grab) Sample (e.g., dethod with the sample (e.g., grab) Sample (e.g., grab) Sample (e.g., dethod with the

e) For discharges where metals are believed present, please fill out the following:							
Step 1: Do any of the metals in the influent have a reasonable potential to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? YN	If yes, which metals?						
Step 2: For any metals which have reasonable potential to exceed the Appendix III limits, calculate the dilution factor (DF) using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals?  Metals:  DF:	Look up the limit calculated at the corresponding dilution factor in Appendix IV. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)?  YN_✓ If "Yes," list which metals:						

a) A description of the treatment SEE ATTACHED SCHEMA	nent system, in									
b) Identify each applicable treatment unit (check all that apply):	Frac. tank	Air stripper	Oil/water se	parator	Equalization tanks		Bag filter ✓	GAC filter ✓		
	Chlorination	Dechlorinati	on Other (pleas	Other (please describe):						
c) Proposed average and maximum flow rates (gallons per minute) for the discharge and the design flow rate(s) (gallons per minute) of the treatment system:  Average flow rate of discharge 22  Maximum flow rate of treatment system 70  Design flow rate of treatment system 70										
d) A description of chemical N/A	additives being	g used or planned t	o be used (attach MSI	OS sheets):	·					
5. Receiving surface water(s).	Please provid	le information abo	ut the receiving water	(s), using separate sh	eets as necessary:					
			Within facility	Storm drain	River/brook ✓	Wetla	nds	Other (describe):		
b) Provide a narrative descrip	tion of the disc	harge pathway, inc	cluding the name(s) or	f the receiving waters	s:					
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:  The discharge is to an unnamed brook area located to the southeast of the on-site aboveground storage tanks										

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:  1. For multiple discharges, number the discharges sequentially.  2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water  The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.
d) Provide the state water quality classification of the receiving water B
e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water N/A cfs  Please attach any calculation sheets used to support stream flow and dilution calculations.
f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes No_✓ If yes, for which pollutant(s)?  Is there a TMDL? Yes No_✓ If yes, for which pollutant(s)?
6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.
a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes No \( \sqrt{No} \)  Has any consultation with the federal services been completed? YES XX No or is consultation underway? No \( No \)  What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):  a "no jeopardy" opinion? \( One \) or written concurrence on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?
b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?  Yes No Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes V No

7. Supplemental information. :		
Please provide any supplemental information.	Attach any analytical data used to support the application.	Attach any certification(s) required by the general permit.

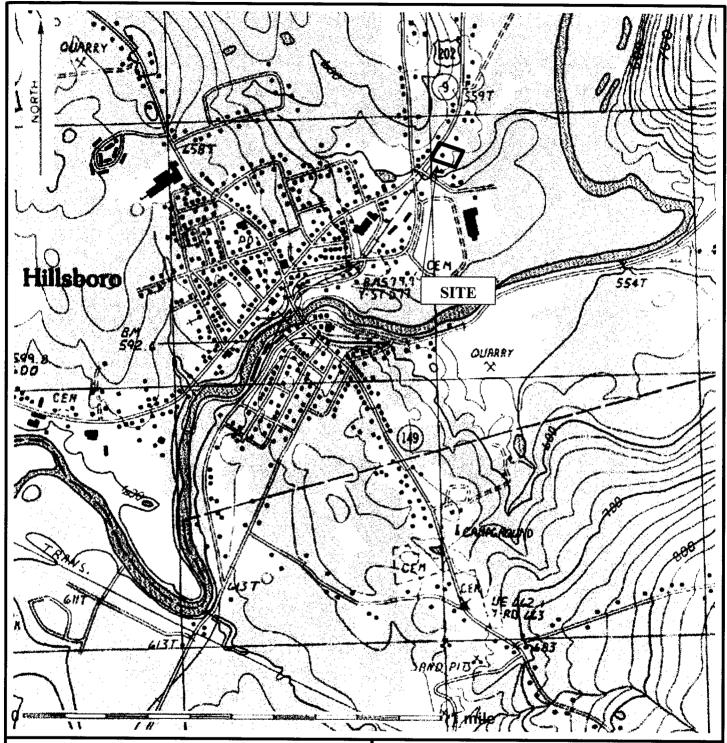
8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: J.B. Vaillancourt, Inc. Bulk Plant Facility

Operator signature: hellary for Title: Account Manager

Date: 7/20/01.

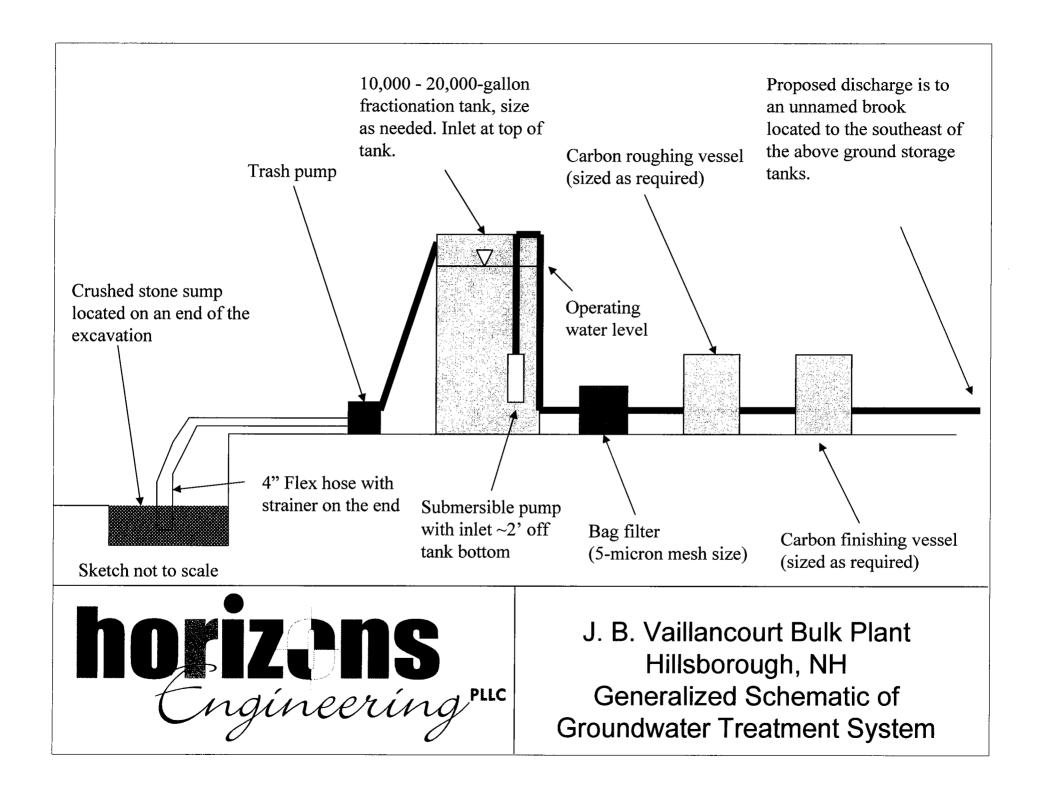


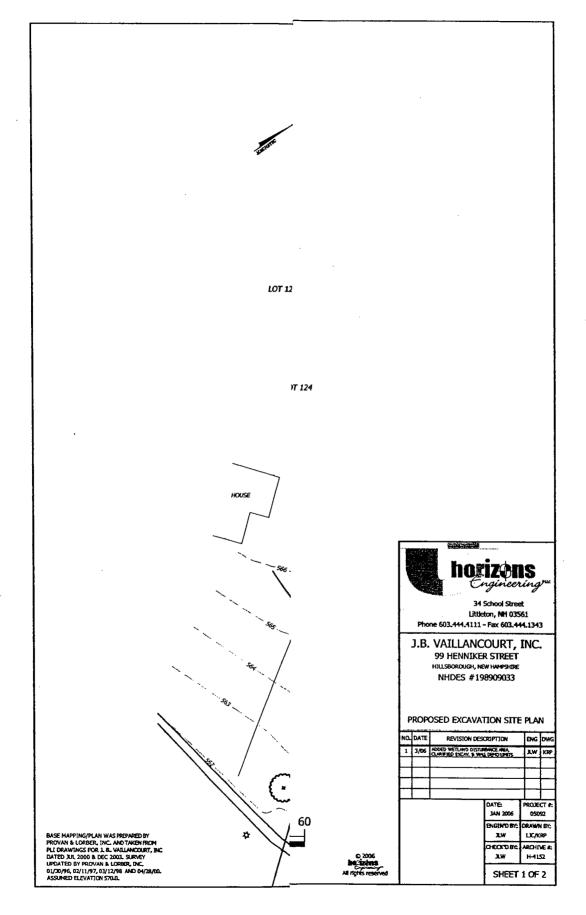
# horizons Engineering Plic

34 School Street Littleton, NH 03561 (603) 444-4111 J.B. Vaillancourt Bulk Plant Hillsborough, NH

Site Locus Map Based on USGS Hillsboro, NH

> Topoquad Map, 1995 Project No. 05092







# horizons Engineering Plic

Project No. 05092 December 23, 2005

State Historic Preservation Officer New Hampshire Department of Cultural Affairs 19 Pillsbury Street, 2<sup>nd</sup> Floor Concord, New Hampshire 03301-3570 Conditions required for NEPA & Section 106 of the NHPA have been met.

∠ Concur

No Resources Present
No Adverse Effect

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Jak Jagues Milenote

Subject:

**NHDES Wetland Application** 

J.B. Vaillancourt, Inc. 99 Henniker Street

Hillsborough, New Hampshire

Dear Preservation Officer:

A Standard Dredge and Fill Permit is being submitted to the NHDES for dredging and then filling 1,794 square feet of wetlands located at 99 Henniker Street in Hillsborough, NH. The purpose of the work is to remove petroleum impacted soil associated with a historic release at the J.B. Vaillancourt Bulk Plant.

Horizons Engineering, P.L.L.C. is requesting any information that you may have concerning historic properties that are listed, or are eligible for listing on the National Register of Historic Places which may be directly or indirectly affected by the proposed project. Enclosed, is a Project Locus Map showing the location of the project. Please do not hesitate to give me a call at (603) 444-4111 if you have any questions or require additional information.

Very truly yours,

Kimberly J. Garrison Environmental Scientist

Horizons Engineering, P.L.L.C.

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34 School Street
Littleton, NH 03561
Phone 603.444.4111
Fax 603.444.1343
email@horizonsengineering.com



#### New Hampshire Natural Heritage Bureau

To: Kimberly Garrison, Horizons Engineering

34 School Street Littleton NH 03561

From: Sara Cairns, NH Natural Heritage Bureau

Date: 02/19/2005

Re: Review by NH Natural Heritage Bureau of request dated 10/21/2005

NHB File ID: 5709

Project type: Contaminant Removal

Town: Hillsborough
Location: 99 Henniker Street

I have searched our database for records of rare species and exemplary natural communities near the area identified in your request. The species considered include all those officially listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. For some purposes, including legal requirements for state wetland permits, the fact that no species of concern are known to be present is sufficient. However, an on-site survey would provide better information on what species and communities are indeed present.

#### J. B. Vaillancourt, Inc. - Bulk Plant - Hillsborough, NH Groundwater Quality Analytical Results - Remediation General Permit NHDES # 198909033

	NHDES # 198909033  Ambient Groundwater			
Analytes		MW-RGP		
Volatile Organic Compounds	Quality Standards	4/17/2006**		
Benzene	AGQS (ug/L)	CONCENTRATION, ug/L (ppb)		
Tolulene	5	430		
Ethylbenzene	1,000	350		
m&p-xylene	700	760		
o-xylene	NA NA	2,900		
Total Detected Xylenes	NA NA	380		
	10,000	3,280		
Total Detected BTEX	NA	4,820		
Methyl-t-butyl-ether (MTBE)	13	210		
2-Butanone (MEK)	4,000	<100		
tert-amyl methyl ether (TAME)	140	<50		
tert-Butyl Alcohol (TBA)	40	<300		
Ethyl-t-butyl ether (ETBE)	40	<50		
Diisopropyl ether (DIPE)	120	<50		
Tetrahydrofuran (THF)	154	<100		
sec-Butylbenzene	260	<10		
n-Butylbenzene	260	<10		
tert-Butylbenzene	260	<10		
1,2,4-Trimethylbenzene	330	530		
1,3,5-Trimethylbenzene	330	190		
n-Propylbenzene	260	30		
p-Isopropyltoluene	260	<10		
Isopropylbenzene	800	20		
Naphthalene	20	210		
Pentachlorophenol	1	<1		
1,4-Dioxane	3	<1		
Poly Aromatic Hydrocarbons - Card	inogenic			
Benzo(a)anthracene	0.05	<1		
Benzo(a)pyrene	0.2	<1		
Benzo(b)fluoranthene	0.05	<1		
Benzo (g,h,i)perylene	210	<1		
Benzo(k)fluoranthene	0.5	<1		
Chrysene	5	<1		
Dibenzo(a,h)anthracene	0.005	<1		
dendo(1,2,3-cd)pyrene	0.05	<1		
Poly Aromatic Hydrocarbons - Non-				
Acenaphthene	420	<1		
Acenaphthylene	420	<1		
Anthracene	2,100	<u> </u>		
Fluoranthene	280	<1		
luorene	280	<u> </u>		
Methylnaphthalene, 2-	280	16		
Naphthalene	20	44		
Phenanthrene	210	<u> </u>		
Pyrene	210	<1		
Total Petroleum Hydrocarbons (mg				
tilg	· <del>- /</del>	9,000		

#### J. B. Vaillancourt, Inc. - Bulk Plant - Hillsborough, NH Groundwater Quality Analytical Results - Remediation General Permit NHDES # 198909033

Analytes	Ambient Groundwater	MW-RGP 4/17/2006**		
PCBs	Quality Standards			
PCB-1016	0.5	<1		
PCB-1221	0.5	<1		
PCB-1232	0.5	<1		
PCB-1242	0.5	<1		
PCB-1248	0.5	<1		
PCB-1254	0.5	<1		
PCB-1260	0.5	<1		
Dissolved Metals (ug/l)				
Antimony	6	<1		
Arsenic	10	3		
Cadmium	5	<1		
Chromium (Total)	100	2		
Copper	1,300	8		
Iron	300 <sup>(1)</sup>	26,000		
Lead	15	16		
Mercury	2	<0.1		
Nickel	100	3		
Selenium	50	<1		
Silver	100	<1		
Zinc	NA NA	51		
Chromium III	NA	<100		
Chromium IV	NA	<100		
Total Suspended Solids (mg/L)	NA NA	110		
Total Cyanide (mg/L)	0	<0.01		
Total Residual Chlorine (mg/L)	NA NA	<2		
Total Phenois (mg/L)	4	0.1		
рН	6.5 - 7.5			

<sup>&</sup>lt; = Detected analyte concentration below indicated laboratory detection limit.</p>
Concentrations listed in **bold** equal to or greater than applicable NHDES AGQS or EPA SMCL NA = Standard not available.
Notes

<sup>\*\* 11/30/05 -</sup> Dilution Factor for VOCs was 10

#### eastern analytical

professional laboratory services

Jon Warzocha

Horizons Engineering PLLC

34 School Street

Littleton, NH 03561

RECEIVED MAY 1 9 2006

Subject: Laboratory Report

Eastern Analytical, Inc. ID: 54188

Client Identification: J.B. Vaillancourt | 06007

Date Received: 4/17/2006

Dear Mr. Warzocha:

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply to all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted

<: "less than" followed by the reporting limit

TNR: Testing Not Requested

ND: None Detected, no established detection limit

RL: Reporting Limits %R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

If you have any questions regarding the results contained within, please feel free to directly contact me or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely.

Lorraine Olashaw, Lab Director

5.17.06

of pages (evaluding a



#### SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#:

Client: Horizons Engineering PLLC Client Designation: J.B. Vaillancourt | 06007

Temperature upon receipt (°C): 1.0 Received on ice or cold packs (Yes/No): Y

Date Date Sample % Dry

Lab ID SampleID Received Sampled Matrix Weight Exceptions/Comments (other than thermal preservation)

54188

54188.01 MW-RGP 4/17/06 4/17/06 aqueous Adheres to Sample Acceptance Policy

54188.02 Trip Blank 4/17/06 4/6/06 aqueous Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater: Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation: J.B. Vaillancourt | 06007

Sample ID:	MW-RGP	Trip Blank
Lab Sample ID:	54188.01	54188.02
Matrix:	aqueous	aqueous
Date Sampled:	4/17/06	4/6/06
Date Received:	4/17/06	4/17/06
Units:	ug/l	ug/l
Date of Analysis:	4/19/06	4/20/06
Analyst:	JDS	JDS
Method:	8260B	8260B
Dilution Factor:	10	1
51.11		
Dichlorodifluoromethane	< 50	< 5
Chloromethane	< 50	< 5
Vinyl chloride	< 20	< 2
Bromomethane	< 20	< 2
Chloroethane	< 50	< 5
Trichlorofluoromethane	< 50	< 5
Diethyl Ether	< 50	< 5
Acetone	< 100	< 10
1,1-Dichloroethene	< 10	< 1
tert-Butyl Alcohol (TBA)	< 300	< 30
Methylene chloride	< 50	< 5
Carbon disulfide	< 20	< 5
Methyl-t-butyl ether(MTBE)	210	< 5
Ethyl-t-butyl ether(ETBE)	< 50	< 5
Isopropyl ether(DIPE)	< 50	< 5
tert-amyl methyl ether(TAME)	< 50	< 5
trans-1,2-Dichloroethene	< 10	< 2
1,1-Dichloroethane	< 10	< 2
2,2-Dichloropropane	< 10	< 2
cis-1,2-Dichloroethene	< 10	< 2
2-Butanone(MEK)	< 100	< 10
Bromochloromethane	< 10	< 2
Tetrahydrofuran(THF)	< 100	< 10
Chloroform	< 10	< 2
1,1,1-Trichloroethane	< 10	< 2
Carbon tetrachloride	< 10	< 2
1,1-Dichloropropene	< 10	< 2
Benzene	430	< 1
1,2-Dichloroethane	< 10	< 2
Trichloroethene	< 10	< 2
1,2-Dichloropropane	< 10	< 2
Dibromomethane	< 10	< 2
Bromodichloromethane	< 10	< 2
4-Methyl-2-pentanone(MIBK)	< 100	< 10
cis-1,3-Dichloropropene	< 10	< 2
Toluene	350	< 1
trans-1,3-Dichloropropene	< 10	< 2
1,1,2-Trichloroethane	< 10	< 2
2-Hexanone	< 100	< 10
Tetrachloroethene	< 10	< 2
1,3-Dichloropropane	< 10	< 2
Dibromochloromethane	< 10	< 2
1,2-Dibromoethane	< 20	< 2
Chlorobenzene	< 10	<.2
1,1,1,2-Tetrachloroethane	< 10	< 2
Ethylbenzene	760	< 1



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation: J.B. Vaillancourt | 06007

Sample ID:	MW-RGP	Trip Blank
Lab Sample ID:	54188.01	54188.02
Matrix:	aqueous	aqueous
Date Sampled:	4/17/06	4/6/06
Date Received:	4/17/06	4/17/06
Units:	ug/l	ug/i
Date of Analysis:	4/19/06	4/20/06
Analyst:	JDS	JDS
Method:	8260B	8260B
Dilution Factor:	10	1
mp-Xylene	2900	< 1
o-Xylene	380	< 1
Styrene	< 10	< 1
Bromoform	< 20	< 2
IsoPropylbenzene	20	< 1
Bromobenzene	< 10	< 2
1,1,2,2-Tetrachloroethane	< 10	< 2
1,2,3-Trichloropropane	< 10	< 2
n-Propylbenzene	30	< 1
2-Chlorotoluene	< 10	< 2
4-Chlorotoluene	< 10	< 2
1,3,5-Trimethylbenzene	190	< 1
tert-Butylbenzene	< 10	< 1
1,2,4-Trimethylbenzene	530	< 1
sec-Butylbenzene 1,3-Dichlorobenzene	< 10	< 1
p-Isopropyltoluene	< 10 < 10	< 1
1,4-Dichlorobenzene	< 10 < 10	< 1 < 1
1,2-Dichlorobenzene	< 10	< 1
n-Butylbenzene	< 10	< 1
1,2-Dibromo-3-chloropropane	< 20	< 2
1,2,4-Trichlorobenzene	< 10	< 1
Hexachlorobutadiene	< 10	< 1
Naphthalene	210	< 5
1,2,3-Trichlorobenzene	< 10	< 1



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation: J.B. Vaillancourt | 06007

Sample ID:	MW-RGP
Lab Sample ID:	54188.01
Matrix:	aqueous
Date Sampled:	4/17/06
Date Received:	4/17/06
Units:	ug/l
Date of Extraction/Prep:	4/18/06
•	.,
Date of Analysis:	4/19/06
Analyst:	BML
Method:	8270C
Dilution Factor:	1
N-Nitrosodimethylamine	< 1
n-Nitroso-di-n-propylamine n-Nitrosodiphenylamine	< 1 < 1
bis(2-Chloroethyl)ether	< 1
bis(2-chloroisopropyl)ether	< 1
bis(2-Chloroethoxy)methane	
1,3-Dichlorobenzene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
1,2,4-Trichlorobenzene 2-Chloronaphthalene	< 1 < 1
4-Chlorophenyl-phenylether	< 1
4-Bromophenyl-phenylether	< 1
Hexachloroethane	< 1
Hexachlorobutadiene	< 1
Hexachlorocyclopentadiene	< 5
Hexachlorobenzene	< 1
4-Chloroaniline	< 1
2-Nitroaniline 3-Nitroaniline	< 5 < 1
4-Nitroaniline	< 1
Benzyl alcohol	< 1
Nitrobenzene	< 1
Isophorone	< 1
2,4-Dinitrotoluene	< 1
2,6-Dinitrotoluene Benzidine	< 1 < 5
3,3'-Dichlorobenzidine	< 5 < 1
Pyridine	< 5
Azobenzene	< 1
Carbazole	< 1
Dimethylphthalate	< 1
Diethylphthalate	< 1
Di-n-butylphthalate	< 5
Butylbenzylphthalate bis(2-Ethylhexyl)phthalate	< 1 < 5
Di-n-octylphthalate	< 1
Dibenzofuran	< 1



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation: J.B. Vaillancourt | 06007

Sample ID:	MW-RGP
Lab Sample ID:	54188.01
Matrix:	aqueous
Date Sampled:	4/17/06
Date Received:	4/17/06
Units:	ug/l
Date of Extraction/Prep:	4/18/06
Date of Analysis:	4/19/06
Analyst:	BML
Method:	8270C
Dilution Factor:	1
Naphthalene 2-Methylnaphthalene Acenaphthylene Acenaphthene Fluorene Phenanthrene Anthracene Fluoranthene Pyrene Benzo[a]anthracene Chrysene Benzo[b]fluoranthene Benzo[k]fluoranthene	44 16 <1 <1 <1 <1 <1 <1 <1
Benzo[a]pyrene Indeno[1,2,3-cd]pyrene Dibenz[a,h]anthracene Benzo[g,h,i]perylene Nitrobenzene-D5 (surr) 2-Fluorobiphenyl (surr) p-Terphenyl-D14 (surr)	< 1 < 1 < 1 < 1 32 %R 34 %R 44 %R

Nitrobenzene-D5 (surr) and 2-Fluorobiphenyl (surr) deviated below the QA/QC limits. The sample was reanalyzed and yielded similar results.



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation: J.B. Vaillancourt | 06007

Sample ID:	MW-RGP
Lab Sample ID:	54188.01
Matrix:	aqueous
Date Sampled:	4/17/06
Date Received:	4/17/06
Units:	ug/l
Date of Extraction/Prep:	4/18/06
Date of Analysis:	4/24/06
Analyst:	BML
Method:	8270C SIM
Dilution Factor:	1
Benzo[a]anthracene	< 0.1
Chrysene	< 0.1
Benzo[b]fluoranthene	< 0.1
Benzo[k]fluoranthene	< 0.1
Benzo[a]pyrene	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	< 0.1
p-Terphenyl-D14 (surr)	56 %R

SIM Technique was employed to provide low level quantitation for these compounds.



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation:

J.B. Vaillancourt | 06007

Sample ID:

MW-RGP

Lab Sample ID:

54188.01

Matrix:

aqueous

**Date Sampled:** 

4/17/06

Date Received: TPH(SGTHEM) 4/17/06

**Analysis** 

Date Time

MethodAnalyst

9

mg/L

Units

4/19/06 19:00

1664A MDM



Toxaphene

## LABORATORY REPORT

Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC		Client Designation: J.B. Vaillancourt   06007			
Sample ID:	MW-RGP				
Lab Sample ID:	54188.01				
Matrix:	aqueous				
Date Sampled:	4/17/06				
Date Received:	4/17/06				
Units:	ug/l				
Date of Extraction/Prep:	4/18/06				
Date of Analysis:					
	4/21/06				
Analyst:	MDM				
Method:	608				
Dilution Factor:	1				
PCB-1016	< 1				
PCB-1221	< 1				
PCB-1232	< 1				
PCB-1242	< 1				
PCB-1248	< 1				
PCB-1254	< 1				
PCB-1260	< 1				
Aldrin	< 0.5				
alpha-BHC	< 0.5				
beta-BHC	< 0.5				
Lindane (gamma-BHC) delta-BHC	< 0.5				
Chlordane	< 0.5				
4,4'-DDT	< 1 < 0.5				
4,4'-DDE	< 0.5 < 0.5				
4,4'-DDD	< 0.5 < 0.5				
Dieldrin	< 0.5 < 0.5				
Endosulfan I	< 0.5				
Endosulfan II	< 0.5				
Endosulfan Sulfate	< 0.5				
Endrin	< 0.5				
Endrin Aldehyde	< 0.5				
Heptachlor	< 0.5				
Heptachlor Epoxide	< 0.5				
Methoxychlor	< 0.5				
Toyonhono					

< 1



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation: J.B. Vaillancourt | 06007

Sample ID:	MW-RGP	
Lab Sample ID:	54188.01	
Matrix:	aqueous	
Date Sampled:	4/17/06	Analysis
Date Received:	4/17/06	Units Date Time Method Analys
Solids Suspended Cyanide Total Total Residual Chlorine Total Phenols	110 < 0.01 < 2 0.10	mg/L 4/20/06 8:30 160.2 SEL mg/L 4/19/06 17:00 335.2 AAB mg/L 4/17/06 18:50 330.5 CJJ mg/L 5/09/06 11:00 420.1 LO

Total Residual Chlorine: Reporting limit elevated on sample "MW-RGP" as a result of dilution due to matrix interference.



Eastern Analytical, Inc. ID#:

54188

Client: Horizons Engineering PLLC

Client Designation: J.B. Vaillancourt | 06007

Sample ID:	MW-RGP				
Lab Sample ID:	54188.01				
Matrix:	aqueous				
Date Sampled:	4/17/06				
Date Received:	4/17/06	Units	Date of Analysis	Method	Analyst
Antimony	< 0.001	mg/L	4/21/06	200.8	DS
Arsenic	0.003	mg/L	4/21/06	200.8	DS
Cadmium	< 0.001	mg/L	4/21/06	200.8	DS
Chromium	0.002	mg/L	4/21/06	200.8	DS
Copper	0.008	mg/L	4/21/06	200.8	DS
Iron	26	mg/L	4/21/06	200.8	DS
Lead	0.016	mg/L	4/21/06	200.8	DS
Mercury	< 0.0001	mg/L	4/21/06	200.8	DS
Nickel	0.003	mg/L	4/21/06	200.8	DS
Selenium	< 0.001	mg/L	4/21/06	200.8	DS
Silver	< 0.001	mg/L	4/21/06	200.8	DS
Zinc	0.051	mg/L	4/21/06	200.8	DS
Chromium (III)	< 0.1	mg/L	4/18/06	200.8	DS
Chromium (VI)	< 0.1	mg/L	4/18/06	7196A	DS

Chromium (IV) and (III): Due to laboratory error the lowest standard evaluated for Chromium (IV) was 0.1 ppm resulting in an elevated reporting limit of < 0.1 ppm for Hexavalent and Trivalent Chromium. This is above the RGP action limit of 0.01 ppm. However, the Total Chromium concentration of 0.002 ppm can be used to support the absence of Hexavalent and Trivalent Chromium at or near the action limit of 0.01 ppm.



Thursday, May 04, 2006

Eastern Analytical 25 Chenell Dr Concord

NH 03301

**Attention: Front Office** 

Sample ID#: AH15960

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours.

**Phyllis Shiller** 

**Laboratory Director** 

CT Lab Registration #PH-0618

MA Lab Registration #MA-CT-007

NY Lab Registration #11301

RI Lab Registration #63

NH Lab Registration #213693-A,B

ME Lab Registration #CT-007

NJ Lab Registration #CT-003

PA Lab Registration #68-03530





#### Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

May 04, 2006

FOR: Attn: Front Office

Eastern Analytical 25 Chennell Drive Concord, NH 03301

see "By" below

Sample Info	<u>ormation</u>	<b>Custody Information</b>	<u>Date</u>	<u>Time</u>
Matrix:	WATER	Collected by: CJ	04/17/06	16:30
Location Co	de: EASTANAL	Received by: LB	04/19/06	11:00

Rush Request:

P.O.#:

19522

**Laboratory Data** 

Analyzed by:

SDG I.D.: GAH15960

Phoenix I.D.: AH15960

Client ID: 54

54188 MW-RGP

Parameter	Result	RL	Units	Date	Time	$\mathbf{B}\mathbf{y}$	Reference
1,4-dioxane	< 1.0	1.0	ug/L	04/26/06		RM	SW8260MOD

**Comments:** 

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director

May 04, 2006

# CHAIN-OF-CUSTODY RECORD

eastern analytical

professional laboratory services

Sample ID	Date Sampled Matrix	aParameters	Sample Notes
MW-RGP	i i	Dioxane Low Level (5ppb) Vocs 8260B-SIM	
	l 16:30		15960

Eastern Analytical Inc. PO Number 19522 EAI SRB# 54188 Std. Project State: NH Results Needed by: Preferred date **Report To: Front Office** Notes about project **Invoice To: Front Office** Phoenix Environmental Labs Company Samples Collected by: 587 East Middle Turnpike Address Manchester, CT 06040 Received by Address Relinquished by Account # Relinquished by Date/Time Received by (860)645-1102 QC Deliverables Phone # 860 645-0823 MA □A+ □B □B+ □C □DE

Eastern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Fax Number

Phone: (603)228-0525

1-800-287-0525

Fax: (603)228-4591



195 Commerce Way Suite E Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906 www.analyticslab.com

Ms. Pam Gagnon
Eastern Analytical, Inc.
25 Chenell Drive
Concord, NH 03301

Report Number: 56291

Revision: Rev. 0

Re:

54188

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 April 2006 and analyzed for the tests listed below. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number

Sample Date

Station Location

**Analysis** 

Comments

56291-1

04/17/06

MW-RGP

EPA 8151 Chlorinated Herbicides

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, North Carolina, New York, Virginia, Pennsylvania and is validated by the U.S. Army Corps of Engineers (MRD) and U.S. Navy (NFESC). A list of actual certified parameters is available upon request.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Authorized signature

Stephen L. Knollmeyer Lab. Director

Date

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.



CLIENT SAMPLE ID

54188

MW-RGP

Ms. Pam Gagnon Eastern Analytical, Inc. 25 Chenell Drive Concord, NH 03301

Project Name:

Project Number:

Client Sample ID:

April 24, 2006

SAMPLE DATA Lab Sample ID: 56291-1

Matrix:

Aqueous

Percent Solid:

N/A

Dilution Factor:

1

Collection Date: Lab Receipt Date: 04/17/06 04/19/06

**Extraction Date:** 

04/19/06

Analysis Date:

04/21/06

#### ANALYTICAL RESULTS CHLORINATED HERBICIDES

**COMPOUND** 

Quantitation Limit μg/L

Results  $\mu g/L$ 

Pentachlorophenol

1

U

Surrogate Standard Recovery

2,4-Dichlorophenylacetic acid %

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY:

Samples were analyzed according to Test Methods for Evaluating Solid Waste, SW-846 Method 8151.

COMMENTS:

Authorized signature Mulenu Kull

# **CHAIN-OF-CUSTODY RECORD**

# eastern analytical

professional laboratory services

9

S. nple ID	Date Sampled Matrix	aParameters	Sample Notes
N V-RGP	4/17/2006   aqueous   Pe	entachlorophenol Water Subcontract	56291-1

3/3

Eastern Analytical Inc. PO Number 19523 EAI SRB# 54188 Project State: NH Std. Results Needed by: Preferred date Report To: Front Office Notes about project **Invoice To: Front Office** Temp@4.1 **Analytics Environmental Labs** Company Samples Collected by: 195 Commerce Way Address 154.1906 Portsmouth, NH 03801 Address Received by \ccount # Relinquished by Date/Time Received by Phone # 436-5111 QC Deliverables  $\square A \square A + \square B \square B + \square C \square DE$ x Number 430-2151

E stern Analytical, Inc. 25 Chenell Dr. Concord, NH 03301

Phone: (603)228-0525

1-800-287-0525

Fax: (603)228-4591

### CHAIN-OF-CUSTOUT KECOKD

54188

	professional laboratory s	Matrix	Please ensure this auto COC is accurate and adheres to permit and sampling requirements for this sampling event.	
SampleID	Date/Time	A - Air S - Soil GW - Ground W. SW - Surface W. DW - Drinking W. WW - Waste W.	EAI Project ID 472  Parameters Sample Notes	# of containers
MW-RGP	16:30	Grab or Comp	AqTot/TSS/ChlorineTRes/TPH1664/CyanT/VNH8260BFullList/TPhenols/E608/ICPMets-Sb-As-Cd-C r-Cu-Fe-Pb-Hg-Ni-Se-Ag-Zn/Cr3/Cr6/14DioxaneLL8260SIMSub/PCPAqSub/BaseN Field Filtered Metals	Check here
preservative: HCL_HNC	, H₂SO, NaOH MEOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ICE		
Trip Blank	1	aqueous	AqTot/VNH8260BFullList	
preservative: HCL HNC		Grab or Comp	Field Filtered Metals	Check here

Project Name	J.B. Vaillancourt   06007	Results Needed by: Preferred date	ReportingOptions  ☑ HC ☐ EDD PDF	PONumber: Verbal  Quote No:
EAI Batch #	State NH	if different)	☐ PDF prelim data instead of FAX☐ e-mail Login Confirmation	Temperature
Client (Pro Mgr)	Jon Warzocha		□ NO FAX	Ice present Yes 17 No I
Customer	Horizons Engineering PLLC		Samples Collected by:	SAS 4/17/06 20
Address 34 School Street			admily former	1845 44406 Chrs
City	Littleton NH 03561			Time Received by
Phone 444-411	1 Fax 444-1343 (12)	QC deliverables		
EmailAddress: j	warzocha@horizonsengineering.com	MA □A+ □B □B+ □C □DE □	Keinidaisied by	/Time Received by
		1227 222 2525 4 222 257 25	525 Fav: (603)228-4591	